



PATENT APPLICATION *IPW*

IN THE U.S. PATENT AND TRADEMARK OFFICE

February 12, 2008

Applicants: Hideki MISAWA et al

For: MAGNETIC MIGRATION AND REVERSAL DISPLAY PANEL AND
MAGNETIC MIGRATION AND REVERSAL DISPLAY METHOD

Serial No.: 10/573 188 Group: 1756

Confirmation No.: 9352

Filed: March 22, 2006 Examiner: Unknown

International Application No.: PCT/JP2004/004625

International Filing Date: March 31, 2004

Atty. Docket No.: 4700.P0325US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

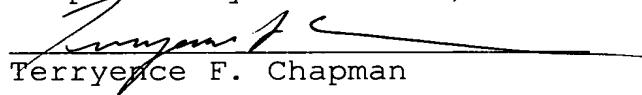
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Respectfully submitted,


Terryence F. Chapman

TFC/smd

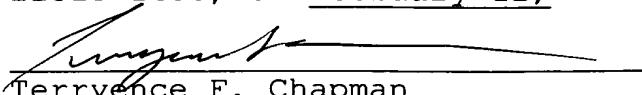
FLYNN, THIEL, BOUTELL & TANIS, P.C. 2026 Rambling Road Kalamazoo, MI 49008-1631 Phone: (269) 381-1156 Fax: (269) 381-5465	David G. Boutell Terryence F. Chapman Mark L. Maki Liane L. Churney John A. Waters Brian R. Tumm Donald J. Wallace Stephen C. Holwerda Dale H. Thiel Sidney B. Williams, Jr. Heon Jekal	Reg. No. 25 072 Reg. No. 32 549 Reg. No. 36 589 Reg. No. 40 694 Reg. No. 24 802 Reg. No. 36 328 Reg. No. 43 977 Reg. No. 57 391 Reg. No. 24 323 Reg. No. 24 949 Reg. No. L0379*
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Terryence F. Chapman



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
10/573,188	03/22/2006	1756	900	4700.P0325US	45	5

CONFIRMATION NO. 9352

23474
FLYNN THIEL BOUTELL & TANIS, P.C.
2026 RAMBLING ROAD
KALAMAZOO, MI 49008-1631

DHT _____ DGB _____ TFO _____
MLM _____ LLC _____ BRT _____
SRT _____ DJW _____ SBW _____



OC000000028015969

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Date Mailed: 02/04/2008

HJ _____ PMG _____
GMS _____ CRA _____ KC _____
FILE _____

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Applicant(s)

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Assignment For Published Patent Application

KABUSHIKI KAISHA PILOT CORPORTION (ALSO TRADING AS PILOT CORPORATION,
TOKYO JAPAN, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 23474

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/04625 03/31/2004

Foreign Applications

JAPAN 2003-346871 10/06/2004 2003
JAPAN 2003-373778 10/31/2003

If Required, Foreign Filing License Granted: 01/30/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 10/573,188**

Projected Publication Date: 05/08/2008

Non-Publication Request: No

Early Publication Request: No

Title

Magnetic Migration and Reversal Display Panel and Magnetic Migration and Reversal Display Method

Preliminary Class

430

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(12) 特許協力条約に基づいて公開された国際出願

訂正版



(19) 世界知的所有権機関
国際事務局

(43) 国際公開日
2005年4月14日 (14.04.2005)

PCT

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WO 2005/033790 A1

(51) 国際特許分類⁷:
G09F 9/37, 19/02, B43L 1/00

G02F 1/17,

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(21) 国際出願番号: PCT/JP2004/004625

(72) 発明者; および

(22) 国際出願日: 2004年3月31日 (31.03.2004)

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(25) 国際出願の言語: 日本語

日本語

(26) 国際公開の言語: 日本語

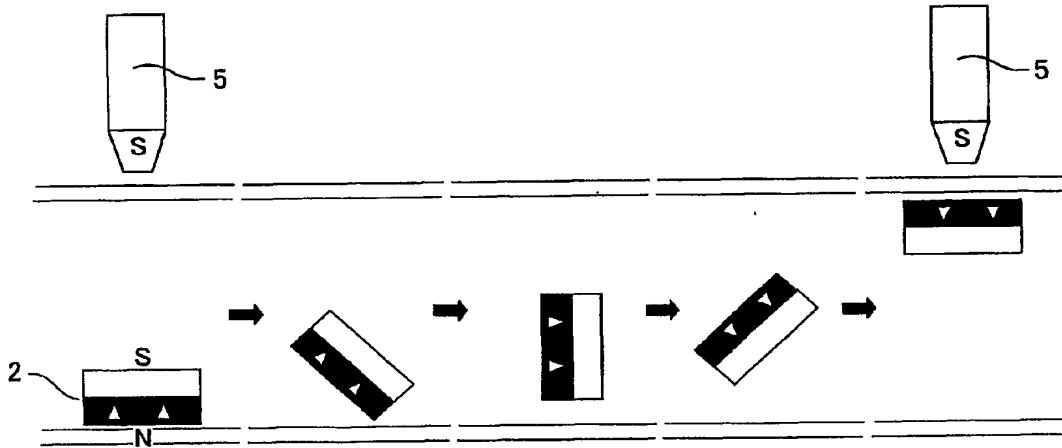
日本語

(30) 優先権データ:
特願2003-346871 2003年10月6日 (06.10.2003) JP
特願2003-373778 2003年10月31日 (31.10.2003) JP

[続葉有]

(54) Title: MAGNETOPHORETIC REVERSAL DISPLAY PANEL AND MAGNETOPHORETIC REVERSAL DISPLAY METHOD

(54) 発明の名称: 磁気泳動反転表示パネルおよび磁気泳動反転表示方法



A1

(57) Abstract: In a magnetic display panel varying the display by means of a magnet, a multicolor display panel capable of magnetically displaying three colors, i.e. two colors in addition to the background, is obtained. The magnetophoretic reversal display panel includes a dispersion liquid where micromagnets having different color of magnetic pole are dispersed into a dispersion medium containing a coloring material. A handwriting representing two display colors is obtained by selecting a specified magnetic pole at a handwriting part, causing magnetophoresis or magnetophoresis/reversal of the micromagnets in the dispersion liquid from the surface side, and displaying the color tone of a specified surface of the micromagnets. Subsequently, a magnetic field of the opposite magnetic pole is applied, from the same surface, to the micromagnets constituting the handwriting indicating the color tone of the specified surface thus varying the color tone of the handwriting without varying the state thereof.

WO 2005/033790 A1

(57) 要約: 磁石により表示を変化させる磁気表示パネルにおいて、背景以外に2色の表示、つまり3色の磁気表
示を行うことができる多色表示パネルを得られる。少なくとも、着色材を含有する分散媒中に磁極の色が異なる微
小磁石を分散した分散液体を内

[続葉有]

4700, P0325US

PTO/SB/106 (8-96)

Approved for use through 9/30/98. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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MAGNETIC MIGRATION AND REVERSAL
DISPLAY PANEL AND MAGNETIC MIGRATION
AND REVERSAL DISPLAY METHOD

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国際出願番号を_____とし、
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was filed on March 31, 2004
as United States Application Number or
PCT International Application Number
PCT/JP2004/004625 and was amended on
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Page 1 of 3

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Prior Foreign Application(s)

外国での先行出願 JP Pat.Appl.

No. 2003-346871	Japan
(Number) (番号)	JP Pat.Appl. (Country) (国名)
No. 2003-373778	Japan

(Number)
(番号)(Country)
(国名)

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(Application No.)

(Filing Date)

(出願番号)

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(Application No.)

(Filing Date)

(出願番号)

(出願日)

(Application No.)

(Filing Date)

(出願番号)

(出願日)

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Priority Not Claimed

優先権主張なし

October 6, 2003

(Day/Month/Year Filed)

(出願年月日)

October 31, 2003

(Day/Month/Year Filed)

(出願年月日)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)

(Filing Date)

(出願番号)

(出願日)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of application.

(Status: Patented, Pending, Abandoned)

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(Status: Patented, Pending, Abandoned)

(現況: 特許許可済、係属中、放棄済)

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委任状： 私は下記の発明者として、本出願に関する一切の手続を米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。（弁護士、または代理人の氏名及び登録番号を明記のこと）

Dale H. Thiel, Reg. No. 24 323
David G. Boutell, Reg. No. 25 072
Ronald J. Tanis, Reg. No. 22 724
Terryence F. Chapman, Reg. No. 32 549
Mark L. Maki, Reg. No. 36 589

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

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Sidney B. Williams, Jr., Reg. No. 24 949
Liane L. Churney, Reg. No. 40 694
Brian R. Tumm, Reg. No. 36 328
Steven R. Thiel, Reg. No. 53 685

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2026 Rambling Road
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唯一または第一発明者名		Full name of sole or first inventor:	
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国籍	Citizenship		
Japan			
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第二共同発明者		Full name of second joint inventor, if any	
		Ryuusuke SAKUMA	
第二共同発明者	日付	Second inventor's signature	Date March 9, 2006
		Ryuusuke SAKUMA	
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（第三以降の共同発明者についても同様に記載し、署名をすること）

(Supply similar information and signature for third and subsequent joint inventors.)

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第三共同発明者の署名	日付	Third joint inventor's signature Date <i>Shinichi Murakata</i> March 9, 2006
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国籍	Citizenship Japan	
郵便の宛先	Post Office Address c/o Kabushiki Kaisha Pilot Corporation, 4-3, Nishiyahata 1-chome, Hiratsuka-shi, Kanagawa 254-8585, Japan	
第四の共同発明者の氏名（該当する場合）		Full name of fourth joint inventor(if any) Shunsuke KAJIWARA
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国籍	Citizenship Japan	
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国籍	Citizenship Japan	
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Additional inventors are being named on the one supplemental additional inventor(s) sheet.

This Declaration ends with this page.